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WAR DEPARTMENT TECHNICAL MANUAL

SEMITRAILER, 6-TON PAYLOAD, 10-TON GROSS, 2-WHEEL, FUEL TANK, 2000-GALLON

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WAR DEPARTMENT TECHNICAL MANUAL TM 9-891

This manual supersedes WDTB 9-891-1, dated 8 February 1944

SEMITRAILER, 6-TON PAYLOAD, 10-TON GROSS, 2-WHEEL, FUEL TANK, 2000-GALLON



WAR DEPARTMENT

25 AUGUST 1944

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The information contained in restricted documents and the essential characteristics of restricted material may be given to any person known to be in the service of the United States and to persons of undoubted loyalty and discretion who are cooperating in Government work, but will not be communicated to the public or to the press except by authorized military public relations agencies. (See also paragraph 23b, AR 380-5, 15 March 1944.)

WAR DEPARTMENT

Washington 25, D. C., 25 August 1944

TM 9-891, Semitrailer, 6-ton Payload, 10-ton Gross, 2-wheel, Fuel Tank, 2,000-gallon, is published for the information and guidance of all concerned.

A.G. 300.7 (19 Jan 44) O.O.M. 461/Rar. Ars. (26 Aug 44) R

By order of the Secretary of War:

G. C. MARSHALL, Chief of Staff.

OFFICIAL:

J. A. ULIO,

Major General,

The Adjutant General.

DISTRIBUTION: X.

(Fr explanation of symbol, see FM 21-6.)

CONTENTS

PART ONE-GENERAL

		P	aragraphs	Pe	ages
SECTION	I.	Introduction	· 1- 2	1-	3
	II.	Description and data	3-4	4-	7
	III.	Tools, parts, and accessories	5- 7	7-	8
	PART	TWO—OPERATING INSTRUC	TIONS		
SECTION	IV.	Controls and operation	8- 9	9-	20
	v.	Operation of auxiliary equipment	10-12	20-	25
PAR	r thr	EE—ORGANIZATIONAL MAIN	NTENA	NCE	
SECTION	VI.	Lubrication	13-14	26-	32
	VII.	First echelon preventive mainte-			
		nance service	15–19	32-	40
	VIII.				
		tenance	20	41-	
	IX.	Trouble shooting	•	52-	
	X.	Wheels, hubs, and bearings	33–35	59-	68
	XI.	Brake system		68–	81
	XII.	Axle assembly	40-42	81–	85
	XIII.	Springs and radius rods	43-44	85-	86
	XIV.	Land and tank gear	45–47	86-	87
	XV.	Electrical system	48-52	88-	96
	XVI.	Piping system	53-57	96–1	02
	XVII.	Hose and fittings	58-60	103-1	08
2	XVIII.	Pumping engine	61–72	108-1	20
	XIX.	Pump	73-78	120-1	26
	XX.	Fire extinguishers		126-1	27
	XXI.	Tråiler converter dolly		127-1	30
		APPENDIX			
SECTION	XXII.	Shipment and limited storage	83-85	131-1	34
2	XXIII.	References			
INDEX				137-1	42

SEMITRAILER, 6-TON PAYLOAD, 10-TON GROSS, 2-WHEEL, FUEL TANK, 2000-GALLON

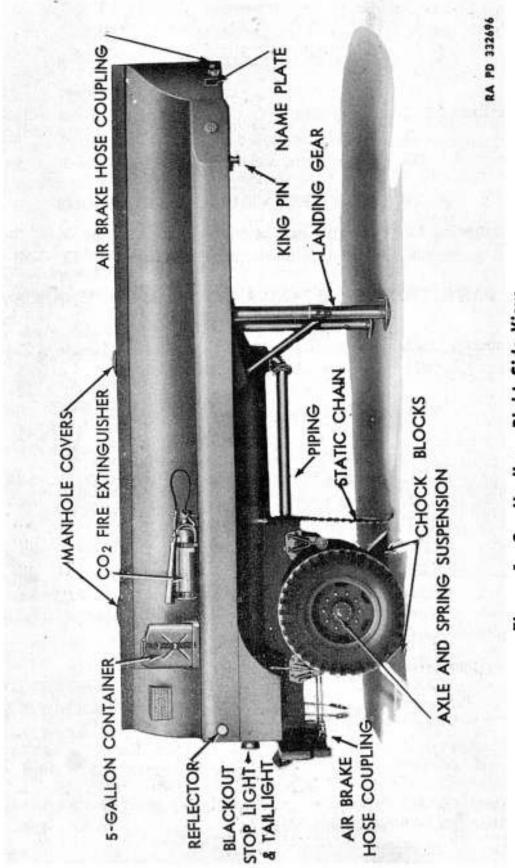


Figure 1—Semitrailer—Right Side View

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This manual supersedes WDTB 9-891-1, dated 8 February 1944

PART ONE GENERAL

Section I

INTRODUCTION

1. SCOPE.*

- a. These instructions are published for the information and guidance of the personnel to whom this equipment is assigned. They contain information on the operation and maintenance of the 6-ton payload, 10-ton gross, 2-wheeled, 2,000-gallon, fuel tank, semitrailer, as well as descriptions of the major units and their functions in relation to the other components of this vehicle.
 - b. This manual has the following arrangement:
- (1) Part One, General, contains description and data. It lists the tools, spare parts, and equipment carried on the vehicle. It also lists special tools required for maintenance of the vehicle, and indicates the echelon of maintenance to which each tool is allocated.
- (2) Part Two, Operating Instructions, contains instructions for the operation of the vehicle with description and location of the controls and instruments.
- (3) Part Three, Organizational Maintenance Instructions, contains information needed for the performance of the scheduled lubrication and preventive maintenance services, and instructions for maintenance operations which are the responsibility of the using organizations (first and second echelons).

2. RECORDS.

- a. Forms and records applicable for use in performing prescribed operations are listed below with brief explanations of each.
- (1) STANDARD FORM No. 26, DRIVER'S REPORT—ACCIDENT, MOTOR TRANSPORTATION. One copy of this form will be kept with the vehicle at all times. In case of an accident resulting in injury or property damage, it will be filled out by the driver on the spot, or as promptly as practical thereafter.

^{*}To provide operating instructions with the materiel, this technical manual has been published in advance of complete technical review. Any errors or omissions will be corrected by changes, or, if extensive, by an early revision.

2

SEMITRAILER, 6-TON PAYLOAD, 10-TON GROSS, 2-WHEEL, FUEL TANK, 2000-GALLON

- (2) WAR DEPARTMENT FORM No. 48, DRIVER'S TRIP TICKET AND PREVENTIVE MAINTENANCE SERVICE RECORD. This form, properly executed, will be furnished to the driver when his vehicle is dispatched on non-tactical missions. The driver and the official user of the vehicle will complete in detail appropriate parts of this form. These forms need not be issued for vehicles in convoy or on tactical missions. The reverse side of this form contains the driver's daily and weekly preventive maintenance service reminder schedule.
- (3) W.D., A.G.O. FORM No. 478, MWO AND MAJOR UNIT AS-SEMBLY REPLACEMENT RECORD. This form will be used by all personnel completing a modification or major unit assembly replacement to record clearly the description of work completed, date, vehicle hours, and/or mileage, and MWO number or nomenclature of unit assembly. Personnel performing the operation will initial in the column provided. Minor repairs, parts, and accessory replacements will not be recorded.
- (4) W.D., A.G.O. FORM No. 6, DUTY ROSTER. This form, slightly modified, will be used for scheduling and maintaining a record of vehicle maintenance operations. It may be used for lubrication records.
- (5) W.D., A.G.O. FORM No. 461, PREVENTIVE MAINTENANCE SERVICE AND TECHNICAL INSPECTION WORK SHEET FOR WHEELED AND HALF-TRACK VEHICLES. This form will be used for all 1,000mile (monthly) and 6,000-mile (semiannual) maintenance services and all technical inspections performed on wheeled or half-track vehicles.
- (6) W.D., O.O. FORM No. 7353, SPOT-CHECK INSPECTION RE-PORT FOR ALL MOTOR VEHICLES. This form may be used by all commanding officers or their staff representatives in making spotcheck inspections on all'vehicles.
- (7) W.D., A.G.O. FORM No. 468, Unsatisfactory Equipment Record. This form will be used for reporting manufacturing, design, or operational defects in material with a view to improving and correcting such defects, and for use in recommending modifications of material. This form will not be used for reporting failures, isolated material defects, or malfunctions of material resulting from fair wear and tear, or accidental damage, nor for the replacement, repair, or the issue of parts and equipment. It does not replace currently authorized operational or performance records.
- (8) W.D., O.O. FORM No. 7370, EXCHANGE PART OR UNIT IDEN-TIFICATION TAG. This tag, properly executed, may be used when exchanging unserviceable items for like serviceable assemblies, subassemblies, parts, vehicles, and tools.

INTRODUCTION

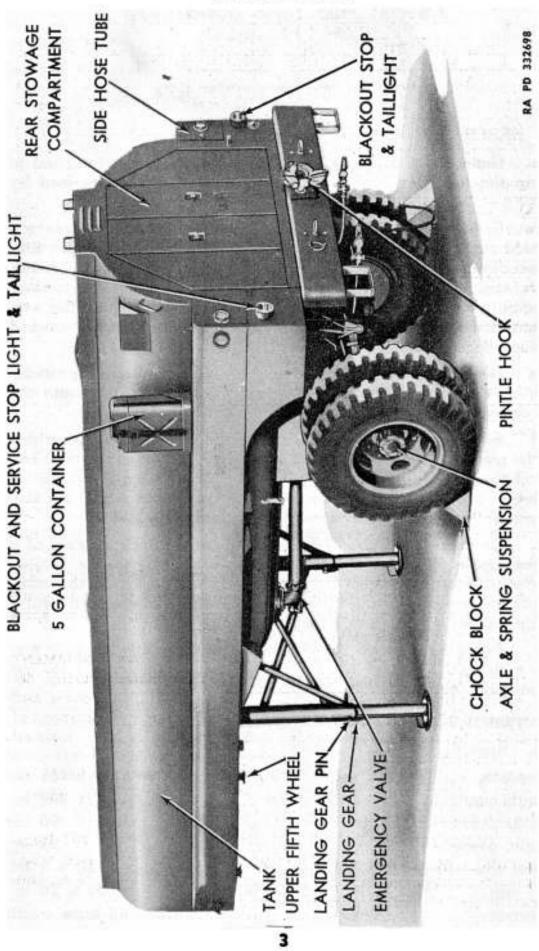


Figure 2—Semitrailer—Left Rear View

3-4

SEMITRAILER, 6-TON PAYLOAD, 10-TON GROSS, 2-WHEEL, FUEL TANK, 2000-GALLON

Section II

DESCRIPTION AND DATA

DESCRIPTION (figs. 1, 2, 3, and 4).

- a. General. This vehicle is designed to transport fuel, and to pump the load into, or out of the tank, or discharge its load by gravity.
- b. Semitrailer. The semitrailer consists of a frameless all-welded steel tank with undercarriage, landing gear and upper fifth wheel directly attached. The tank is divided into two compartments, each fitted with outlet piping and manhole cover. The undercarriage is equipped with Bendix-Westinghouse air brakes. The tubular axle is attached to the tank by slipper end springs and rubber-bushed radius rods to hold the axle in correct alinement.
- c. Landing Gear. The landing gear has two telescoping tubular legs which support the semitrailer when it is uncoupled from the tractor truck or converter dolly.
- d. Stowage Compartment. A stowage compartment is welded to the rear of the tank. It has the same cross section as the tank and side hose tubes, and is equipped with double opening rear doors. There is a small door at the rear of the hose tubes which are also accessible through the rear stowage compartment.
- e. Converter Dolly. The converter dolly, which consists of a frame supported by the same type undercarriage as the semitrailer, carries a lower fifth wheel which engages the kingpin on the semitrailer to convert it into a full trailer. The dolly is equipped with a pintle ring for attaching to a truck or another trailer.
- f. Pumping System. An engine driven portable pumping system with attaching hose is carried in the rear compartment for use in pumping fuel into, and out of, the tank.

4. TABULATED DATA.

Specifications.

Wheelbase King pin to axle 1541/2	in.
Length, over-all 240	in.
Width, over-all 96	
Height, over-all 93	
Wheel size—10 stud 111/4 in	
Tire size 9.00 x 20	in.
Tire type	ad